Model 115CR

ASME Code Section VIII Safety Valve
Stainless Steel, Soft Seat

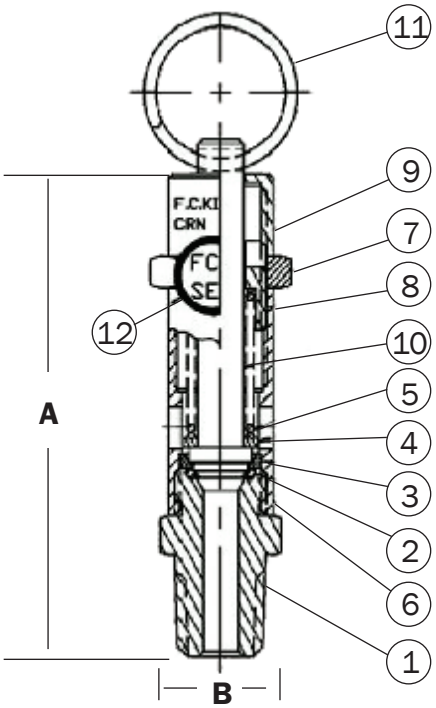
Features

- Viton O-Ring Provides Soft Seat Performance
- Precision Machined Hard, Positive Stop
- Stainless Steel Construction
- Pull Ring for Manual Testing
- Available Sizes: 1/4"& 1/2" NPT
- ASME/NB Certified- Stamped UV + NB
- Temperature Range: -20°F to 400°F
- Registered in All Canadian Provinces & Territories
- Steam Rated for 35 PSI to 50 PSI

Model	Inlet Size	Orifice	Dimensions (inches) Height (A)	Hex (B)	Set Pressure Range (PSIG)	Approx. Ship Wt.	Min Temp. (°F)	Max Temp. (°F)
115CR	1/4" NPT	.219	3-1/8"	5/8"	25-300	3 oz.	-20°F	400 °F
	1/2" NPT	.312	4-1/2"	7/8"	25-275	9 oz.		

Materials

No.	Part Name	Materials
1	Base	Stainless Steel
2	O' Ring	Viton
3	Seat Washer	Stainless Steel
4	Stem Washer	Stainless Steel
5	Spring	Stainless Steel
6	Body	Stainless Steel
7	Lock Nut	Stainless Steel
8	Adj. Screw	Stainless Steel
9	Cap	Stainless Steel
10	Stem	Stainless Steel
11	Pull Ring	Stainless Steel
12	Seal	Viton



Kingston Model 115CR Stainless Steel Safety Relief Valve

Flow Capacity Information

Fig. 115CR - 1/4" & 1/2"

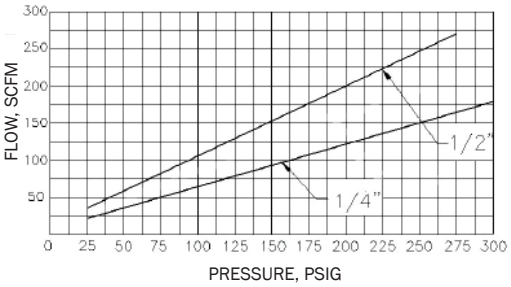
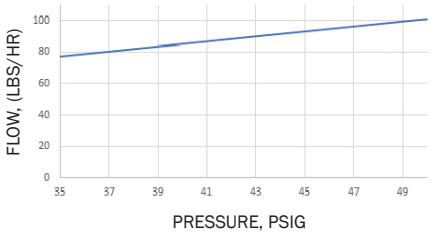


Fig. 115CRP - 1/4" & 1/2"



SET PRESSURE	STAMPED SCFM		SET PRESSURE	STAMPED SCFM	
psi	1/4"	1/2"	psi	1/4"	1/2"
25	22	36	**165**	102	167
30	25	41	**170**	105	171
35	28	45	**175**	108	176
40	31	50	**180**	111	181
45	33	55	**185**	113	185
50	36	59	**190**	116	190
55	39	64	**195**	119	195
60	42	69	**200**	122	199
65	45	73	**205**	125	204
70	48	78	**210**	128	209
75	51	83	**215**	131	214
80	53	87	**220**	133	218
85	56	92	**225**	136	223
90	59	97	**230**	139	228
95	62	101	**235**	142	232
100	65	106	**240**	145	237
105	68	111	**245**	148	242
110	71	115	**250**	151	246
115	73	120	**255**	154	251
120	76	125	**260**	156	256
125	79	129	**265**	159	260
130	82	134	**270**	162	265
135	85	139	**275**	165	270
140	88	143	**280**	168	
145	91	148	**285**	171	
150	93	153	**290**	174	
155	96	157	**295**	176	
160	99	162	**300**	179	

Ordering Information

Kingston Safety Relief Valve Part Number Codes

1	1	5	C	R		–		–			

Valve Family
- 115

Material Codes
- 'CR' Stainless Steel, if available

Option
- 'P' Steam Rated

Size
2= 1/4" NPT
4= 1/2" NPT

Relief Pressure Setting
5 psi increments
Ex.
25 psi = -025
150 psi = -150

*CRP: 35 psi to 50 psi

FIG. 115P-2 & 115CRP (1/4 NPT)			
SET PRESSURE	STAMPED CAPACITY(LB/HR)	SET PRESSURE	STAMPED CAPACITY(LB/HR)
35	77	**43**	90
36	79	**44**	92
37	80	**45**	93
38	82	**46**	95
39	84	**47**	96
40	85	**48**	98
41	87	**49**	100
42	88	**50**	101

Product Notes

All Kingston Safety Valves are manufactured under a quality control system accepted by the National Board of Boiler and Pressure Vessel inspectors. Code valves are capacity certified by the National Board, manufactured in accordance with ASME Code, set and sealed at the factory.

Set pressure can deviate from the marked by ± 2 psig at or below 70 psig set pressures and ± 3% psig above 70 psig.

Factory standard seat tightness for hard seat valves: no audible leakage at 20% below nameplate set. It is normal for spring-operated safety valves to exhibit leakage or simmer/warn, as the system operating pressure approaches the set pressure. For hard seat valves this is typically occurs at pressure at or above 80% of nameplate set pressure.

At very low set pressure (20 psig and below), the ratio of the downward spring force as compared to the upward pressure force is very small. In these cases it may be impossible to achieve seat tightness.

Soft seat valves will typically provide a higher degree of seat tightness than metal, hard seats. Factory standard seat tightness does not ensure bubble-tight seal regardless of material. Storm Manufacturing reserves all rights. Product specifications are subject to change without notice.

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